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Bibliometrics: Downloads (6 Weeks): 43, Downloads (12 Months): 271, Downloads (Overall): 632, Citation Count: 0

Virtual and augmented reality have been around for a long time, but for most people they are movie fantasies. Very few people outside a few research labs have worked with or experienced these systems for themselves. On the other hand, interactive 3D ...

2 [Streams, structures, spaces, scenarios, societies \(5s\): A formal model for digital libraries](#) [Marcos André Gonçalves, Edward A. Fox, Layne T. Watson, Neill A. Kipp](#)April 2004 [Transactions on Information Systems \(TOIS\)](#) , Volume 22 Issue 2Publisher: ACM [Request Permissions](#)Full text available: [Pdf](#) (316.85 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 50, Downloads (12 Months): 454, Downloads (Overall): 4021, Citation Count: 25

Digital libraries (DLs) are complex information systems and therefore demand formal foundations lest development efforts diverge and interoperability suffers. In this article, we propose the fundamental abstractions of Streams, Structures, Spaces, Scenarios, ...

Keywords: applications., definitions, foundations, taxonomy

3 [A simple mechanism for capturing and replaying wireless channels](#) [Glenn Judd, Peter Staenkiste](#)August 2005 [E-WIND '05: Proceedings of the 2005 ACM SIGCOMM workshop on Experimental approaches to wireless network design and analysis](#)Publisher: ACM [Request Permissions](#)Full text available: [Pdf](#) (6.06 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

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Physical layer wireless network emulation has the potential to be a powerful experimental tool. An important challenge in physical emulation, and traditional simulation, is to accurately model the wireless channel. In this paper we examine the possibility ...

Keywords: channel capture, emulation, wireless

4 [Communications of the ACM: Volume 52 Issue 4](#)



April 2009

Communications of the ACM

Publisher: ACM

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**Bibliometrics:** Downloads (6 Weeks): 369, Downloads (12 Months): 1129, Downloads (Overall): 2101, Citation Count: 0

5 [Communications of the ACM: Volume 52 Issue 9](#)



September 2009

Communications of the ACM

Publisher: ACM

Full text available: [Digital Edition](#) (MB), [Pdf](#) (7.28 MB)

Additional Information: [full citation](#)

**Bibliometrics:** Downloads (6 Weeks): 553, Downloads (12 Months): 553, Downloads (Overall): 553, Citation Count: 0

6 [A generic component model for building systems software](#)



[Geoff Coulson](#), [Gordon Blair](#), [Paul Grace](#), [Francois Talarin](#), [Ackbar Joolia](#), [Kevin Lee](#), [Jo Ueyama](#), [Thirunavukkarasu Sivabaran](#)

February Transactions on Computer Systems (TOCS), Volume 26 Issue 1

Publisher: ACM

Full text available: [Request Permissions](#) (KB), [Pdf](#) (603.88 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 99, Downloads (12 Months): 423, Downloads (Overall): 1502, Citation Count: 16

Component-based software structuring principles are now commonplace at the application level; but componentization is far less established when it comes to building low-level system software. Although there have been pioneering efforts in applying componentization ...

**Keywords:** Component-based software, computer systems implementation

7 [Communications of the ACM: Volume 53 Issue 1](#)



January 2010

Communications of the ACM

Publisher: ACM

Full text available: [Digital Edition](#) (MB), [Pdf](#) (8.09 MB)

Additional Information: [full citation](#)

**Bibliometrics:** Downloads (6 Weeks): 750, Downloads (12 Months): 750, Downloads (Overall): 750, Citation Count: 0

8 [Communications of the ACM: Volume 52 Issue 2](#)



February 2009

Communications of the ACM

Publisher: ACM

Full text available: [Digital Edition](#) (MB), [Pdf](#) (7.09 MB)

Additional Information: [full citation](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 325, Downloads (12 Months): 831, Downloads (Overall): 3195, Citation Count: 0

9 [Using high-speed WANs and network data caches to enable remote and distributed visualization](#)

[Wes Bethel](#), [Brian Tierney](#), [Jason Lee](#), [Dan Gunter](#), [Stephen Lau](#)

November Supercomputing '00: Proceedings of the 2000 ACM/IEEE conference on Supercomputing (CDROM)

Publisher: IEEE Computer Society


Full text available: [Pdf](#) (302.38 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 9, Downloads (12 Months): 50, Downloads (Overall): 434, Citation Count: 22

Visapult is a prototype application and framework for remote visualization of large scientific datasets. We approach the technical challenges of tera-scale visualization with a unique architecture which employs high speed WANs and network data caches ...

- 10 [MANTIS OS: an embedded multithreaded operating system for wireless micro sensor platforms](#)  
[Shah Bhatti, James Carlson, Hui Dai, Jing Deng, Jeff Rose, Anmol Sheth, Brian Shucker, Charles Gruenwald, Adam Torgerson, Richard Han](#)  
 August 2005 **Mobile Networks and Applications** , Volume 10 Issue 4  
 Publisher: Kluwer Academic Publishers



Full text available:  [PDF](#) (1.27 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 20, Downloads (12 Months): 142, Downloads (Overall): 630, Citation Count: 42

The MANTIS Multimodal system for Networks of In-situ wireless Sensors provides a new multithreaded cross-platform embedded operating system for wireless sensor networks. As sensor networks accommodate increasingly complex tasks such as compression/aggregation ...

**Keywords:** cross-platform, dynamic reprogramming, embedded operating system, lightweight, low power, multithreaded, sensor networks

- 11 [SplitStream: high-bandwidth multicast in cooperative environments](#)  
 [Miguel Castro, Peter Druschel, Anne-Marie Kermarrec, Animesh Nandi, Antony Rowstron, Atul Singh](#)  
 December 2003 **SOSP '03: Proceedings of the nineteenth ACM symposium on Operating systems principles**  
 Publisher: ACM 

Full text available:  [PDF](#) (847.74 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)



**Bibliometrics:** Downloads (6 Weeks): 28, Downloads (12 Months): 236, Downloads (Overall): 2008, Citation Count: 172

In tree-based multicast systems, a relatively small number of interior nodes carry the load of forwarding multicast messages. This works well when the interior nodes are highly-available, dedicated infrastructure routers but it poses a problem for application-level ...

**Keywords:** application-level multicast, content distribution, end-system multicast, peer-to-peer, video streaming

Also published in:

December 2003 **SIGOPS Operating Systems Review** Volume 37 Issue 5

- 12 [Workshop report from IEEE VR 2007: future standards for immersive VR](#)  
 [Nicholas F. Polys, Don Brutzman, Anthony Steed, Johannes Behr](#)  
 December 2008 **SI GGRAPH Asia '08: SIGGRAPH ASIA 2008 courses**  
 Publisher: ACM 



Full text available:  [PDF](#) (948.30 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 15, Downloads (12 Months): 95, Downloads (Overall): 139, Citation Count: 0

The motivation for this workshop was to create shared understanding between the Virtual Reality (VR) and Web3D communities. While the two fields of Web-based 3D graphics and VR 3D graphics have tended to view their technology as different beasts, they ...

**Keywords:** computer graphics, data storage representations, distributed systems, reusable software

- 13 [Reliability through redundant parallelism for micro-satellite computing](#)  
 [Ian Vince McLoughlin, Timo Rolf Breitschneider](#)  
 February 2010 **Transactions on Embedded Computing Systems (TECS)** , Volume 9 Issue 3  
 Publisher: ACM 

Full text available:  [PDF](#) (509.22 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 33, Downloads (12 Months): 49, Downloads (Overall): 49, Citation Count: 0

Spacecraft typically employ rare and expensive radiation-tolerant, radiation-hardened, or at least military qualified parts for computational and other mission critical subsystems. Reasons include reliability in the harsh environment of space, and systems ...

**Keyw ords:** COTS components, FPGA, Fault tolerance, hardware redundancy, micro-satellite, on-board computer, parallel processing

14 [Collaborative augmented reality environments: integrating VR, working materials, and distributed work spaces](#)



Monika Büscher, Michael Christensen, Kai Granbek, Peter Krogh, Preben Mogensen, Dan Shapiro, Peter Orbeek

September CVE '00: Proceedings of the third international conference on Collaborative virtual environments

2000

**Publisher:** ACM [Request Permissions](#)

Full text available: [PDF](#) (1.03 MB)

**Additional Information:** [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 11, Downloads (12 Months): 50, Downloads (Overall): 724, Citation Count: 9

In this work, we present a new method for displaying stereo scenes, which speeds up the rendering time of complex geometry. We first discuss a scene splitting strategy, allowing us to partition objects to the distant background or the ...

**Keywords:** 3D workspace, CSCW, roomware, virtual office/project room, virtual reality, working material

15 [BOTS: a constraint-based component system for synthesizing scalable software systems](#)



Batu Pandey, Jeffrey Wu

July LCTES '06: Proceedings of the 2006 ACM SIGPLAN/SIGBED conference on Language, compilers, and 2006 tool support for embedded systems

**Publisher:** ACM [Request Permissions](#)

Full text available: [PDF](#) (211.98 KB)

**Additional Information:** [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 8, Downloads (12 Months): 37, Downloads (Overall): 335, Citation Count: 1

Embedded application developers create applications for a wide range of devices with different resource constraints. Developers want to maximize the use of the limited resources available on the device while still not exceeding the capabilities of the ...

**Keywords:** components, constraints, embedded systems, generative programming, runtime systems, wireless sensor networks

Also published in:

July 2006 SIGPLAN Notices Volume 41 Issue 7

16 [Manning irregular applications to DiVA, a PIM-based data-intensive architecture](#)



Mary Hall, Peter Kogge, Jeff Koller, Pedro Diniz, Jacqueline Chame, Jeff Draper, Jeff LaCoss, John Granacki, Jay Brockman, Apoorv Srivastava, William Athas, Vincent Freen, Jaewook Shin, Jongseok Park


January Supercomputing '99: Proceedings of the 1999 ACM/IEEE conference on Supercomputing 1999 (CDROM)

**Publisher:** ACM


Full text available: [PDF](#) (111.41 KB)

**Additional Information:** [full citation](#), [references](#), [cited by](#), [index terms](#)


**Bibliometrics:** Downloads (6 Weeks): 2, Downloads (12 Months): 24, Downloads (Overall): 276, Citation Count: 26

17 [NETKIT: a software component-based approach to programmable networking](#)
 Geoff Coulson, Gordon Blair, David Hutchison, Ackbar Jooja, Kevin Lee, Jo Ueyama, Antonio Gomes, Yimin Ye
October **SIGCOMM Computer Communication Review**, Volume 33 Issue 5


2003

**Publisher:** ACMFull text available:  [PDF](#) (316.64 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)**Bibliometrics:** Downloads (6 Weeks): 6, Downloads (12 Months): 27, Downloads (Overall): 624, Citation Count: 7

While there has already been significant research in support of openness and programmability in networks, this paper argues that there remains a need for generic support for the integrated development, deployment and management of programmable networking ...

**Keywords:** components, middleware, programmable networking, reflection18 [ASPEN: an adaptive spatial peer-to-peer network](#)
 Hagim Wang, Roger Zimmermann, Wei-Shinn Ku
November **GIS '05: Proceedings of the 13th annual ACM international workshop on Geographic information systems****Publisher:** ACM Full text available:  [PDF](#) (564.50 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)**Bibliometrics:** Downloads (6 Weeks): 3, Downloads (12 Months): 39, Downloads (Overall): 293, Citation Count: 2

Geographic Information Systems (GIS) are increasingly managing very large sets of data and hence a centralized data repository may not always provide the most scalable solution. Here we introduce a novel approach to manage spatial data by leveraging ...

**Keywords:** distributed spatial databases, peer-to-peer systems19 [Disens: scalable distributed sensor network simulation](#)
 Ye Wen, Rich Wolski, Gregory Moore
March **PPoPP '07: Proceedings of the 12th ACM SIGPLAN symposium on Principles and practice of parallel programming****Publisher:** ACM Full text available:  [PDF](#) (304.72 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)**Bibliometrics:** Downloads (6 Weeks): 4, Downloads (12 Months): 97, Downloads (Overall): 453, Citation Count: 6

Simulation is widely used for developing, evaluating and analyzing sensor network applications, especially when deploying a large scale sensor network remains expensive and labor intensive. However, due to its computation intensive nature, existent simulation ...





**Keywords:** distributed simulation, sensor network, simulation20 [A flexible Java framework for embedded systems](#)
 Juan A. Holgado-Terriza, Jaime Viúdez-Aívar
September **JTRES '09: Proceedings of the 7th International Workshop on Java Technologies for Real-Time and Embedded Systems****Publisher:** ACM Full text available:  [PDF](#) (981.17 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)**Bibliometrics:** Downloads (6 Weeks): 16, Downloads (12 Months): 125, Downloads (Overall): 125, Citation Count: 0

Today, several strategies are possible to build a complete embedded application, including software and hardware components with a reusable base to satisfy the increasing demands and requirements of actual embedded systems with shorter time to market. ...

**Keywords:** Java, embedded systems, flexibility, framework, microcontrollerResult page: 1 [2](#) [3](#) [next](#)[»»](#)

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